

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-342351

(43)Date of publication of application : 29.11.2002

(51)Int.Cl.

G06F 17/30

H04H 1/00

H04H 7/00

// H04N 5/44

(21)Application number : 2001-145313 (71)Applicant : OTA IKUO

(22)Date of filing : 15.05.2001 (72)Inventor : OTA IKUO

TAI SHINJI

(54) TOTAL BROADCASTING DATABASE PREPARING SYSTEM AND BROADCASTING STATION BROADCASTING DATABASE PREPARING SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a system for preparing a database integrating the information or the like of broadcasted music and broadcasted program in a retrievable state.

SOLUTION: This system has a program DB 100 relating integrating the program codes, program information and program broadcasting time of programs, music DB 60 relating integrating the music codes and music information of music, reading means 50 for reading a music code out of a music recording medium or container thereof, first storage means 70 and 90 for reading the program information and the program broadcasting time out of the program DB and storing them together with the program code, second storage means 80 and 90 for reading the music information out of the music DB and storing it together with the music code and the music broadcasting time, broadcasting data generating means 90 for generating broadcasting data composed of the program code, program information, program broadcasting time, music code, music information, music broadcasting time and broadcasting station name or the like and total storage device for integrating the broadcasting data and

storing them as a total broadcasting DB 130.

LEGAL STATUS

[Date of request for examination] 09.10.2001
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
[Date of final disposal for application]
[Patent number] 3592255
[Date of registration] 03.09.2004
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]

CLAIMS

[Claim(s)]

[Claim 1] It is the comprehensive broadcast database creation system which creates the comprehensive broadcast database which accumulated at least the broadcast data about the contents which two or more broadcasting stations broadcast possible [a classification] for said every broadcasting station. The program code which identifies this program broadcast with this program in case said broadcasting station broadcasts a program at least, The program database which associated the program information about this program, and the program broadcasting hours it is broadcast that these programs are, and was accumulated, The musical piece code which identifies this musical piece broadcast with this musical piece in case said broadcasting station broadcasts the musical piece recorded on the musical piece record medium, The musical piece database which associated the musical piece information about this musical piece, and was accumulated, The musical piece code read-out means of said musical piece codes given to the container of said musical piece code recorded on said musical piece record medium with said musical piece, and said musical piece record medium which reads said one of musical piece codes at least, Said program information related with said program code at least when said

broadcasting station broadcast said program code with said program, and said program broadcasting hours are read from said program database. A 1st storage means to associate said program code, said program information, said program broadcasting hours, and broadcasting station name of said broadcasting station, and to memorize temporarily, Said musical piece information related with said musical piece code given when said musical piece code was given from said musical piece code read-out means is read from said musical piece database. A 2nd storage means to associate the musical piece broadcasting hours it was broadcast that said musical piece code, said musical piece information, and said musical piece were, and to memorize temporarily, Said program broadcasting hours said musical piece broadcasting hours Associate said musical piece code memorized by said program code memorized by said 1st storage means when contained, said program information, said program broadcasting hours, said broadcasting station name, and said 2nd storage means, said musical piece information, and said musical piece broadcasting hours, and it generates as broadcast data. A broadcast data generation means to associate said program code, said program information, said program broadcasting hours, and said broadcasting station name, to generate as these broadcast data, and to memorize temporarily when said program broadcasting hours do not contain said musical piece broadcasting hours, The comprehensive broadcast database creation system characterized by including the comprehensive store which accumulates said generated broadcast data possible [a classification] for every broadcasting station, and is stored as said comprehensive broadcast database.

[Claim 2] Said musical piece code recorded on said musical piece record medium with said musical piece is a comprehensive broadcast database creation system according to claim 1 which is ISRC.

[Claim 3] Said musical piece code given to said container of said musical piece record medium is a comprehensive broadcast database creation system according to claim 1 which is a bar code.

[Claim 4] Said comprehensive store is a comprehensive broadcast database creation system according to claim 1, 2, or 3 which reads said broadcast data from said broadcast data generation means, accumulates possible [a classification] for every broadcasting station, and is stored as said comprehensive broadcast database.

[Claim 5] The comprehensive broadcast database creation system according to claim 1, 2, 3, or 4 which has further the broadcasting station store which accumulates said broadcast data generated in said broadcast data generation means, and is stored as a broadcasting station broadcast database.

[Claim 6] Said comprehensive store is a comprehensive broadcast database creation system according to claim 5 which reads said broadcast data from said broadcasting station store, accumulates possible [a classification] for every broadcasting station, and is stored as said comprehensive broadcast database.

[Claim 7] The comprehensive broadcast database creation system according to claim

1, 2, 3, 4, 5, or 6 which has the connecting means which connects said comprehensive storage to a computer network.

[Claim 8] A comprehensive broadcast data system creation system [equipped with a 1st total means to total said broadcast data accumulated as said comprehensive broadcast database] according to claim 1, 2, 3, 4, 5, 6, or 7.

[Claim 9] The comprehensive broadcast database creation system according to claim 8 further equipped with a 2nd total means to total the count by which said broadcast data accumulated as said comprehensive broadcast database were accessed.

[Claim 10] It is the broadcasting station broadcast database creation system which creates the broadcasting station broadcast database which accumulated the broadcast data about the contents which the broadcasting station broadcast. The program code which identifies this program broadcast with this program in case said broadcasting station broadcasts a program, The program database which associated the program information about this program, and the program broadcasting hours it is broadcast that these programs are, and was accumulated, The musical piece code which identifies this musical piece broadcast with this musical piece in case said broadcasting station broadcasts the musical piece recorded on the musical piece record medium, The musical piece database which associated the musical piece information about this musical piece, and was accumulated, The musical piece code read-out means of said musical piece codes given to the container of said musical piece code recorded on said musical piece record medium with said musical piece, and said musical piece record medium which reads said one of musical piece codes at least, Said program information related with said program code when said broadcasting station broadcast said program code with said program, and said program broadcasting hours are read from said program database. A 1st storage means to associate said program code, said program information, and said program broadcasting hours, and to memorize temporarily, Said musical piece information related with said musical piece code given when said musical piece code was given from said musical piece code read-out means is read from said musical piece database. A 2nd storage means to associate the musical piece broadcasting hours it was broadcast that said musical piece code, said musical piece information, and said musical piece were, and to memorize temporarily, Associate said musical piece code memorized by said program code memorized by said 1st storage means when said program broadcasting hours contained said musical piece broadcasting hours, said program information, said program broadcasting hours, and said 2nd storage means, said musical piece information, and said musical piece broadcasting hours, and it generates as broadcast data. A broadcast data generation means to associate said program code, said program information, and said program broadcasting hours, to generate as these broadcast data, and to memorize temporarily when said program broadcasting hours do not contain said musical piece broadcasting hours, The broadcasting station broadcast database creation system characterized by including

the broadcasting station store which accumulates said generated broadcast data and is stored as said broadcasting station broadcast database.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the broadcasting station broadcast database creation system which creates the broadcasting station broadcast database which accumulated the broadcast data about the contents which the comprehensive broadcast database creation system and broadcasting station which create the comprehensive broadcast database which accumulated at least the broadcast data about the contents which two or more broadcasting stations broadcast possible [a classification] for said every broadcasting station broadcast.

[0002]

[Description of the Prior Art] When it was going to create a musical piece list including the music name of the musical piece which the broadcasting station broadcast, and a demonstration person name, at the broadcasting station, the music name etc. was inputted manually, and the musical piece list was created.

[0003] Moreover, on FM radio, the information about musical pieces, such as a musical piece name, is combined with a musical piece, and is broadcast, and service which can display the music name of the musical piece under broadcast, a demonstration person name, etc. on the display means of a receiver is offered. The approach of carrying out the frequency modulation of the alphabetic data by which digital conversion was carried out in ultrasonic compass as an approach of broadcasting alphabetic data including the music name of the musical piece under broadcast, a demonstration person name, etc., and carrying out multiplex broadcasting to a musical piece is taken.

[0004] Thus, when it carried out multiplex broadcasting, having used information, such as a music name of a musical piece, and a demonstration person name, as alphabetic data, it inputted manually and alphabetic data was created so that it might be of use for broadcast at the broadcasting station which broadcasts a musical piece also about the alphabetic data.

[0005]

[Problem(s) to be Solved by the Invention] However, since the music name etc. was manually inputted in order to create a musical piece list, the alphabetic data of multiplex broadcasting, etc., it was difficult to create a musical piece list at the same time a musical piece is broadcast, and in order to create so that it may be of use for

broadcast, the input mistake of a music name etc. had produced alphabetic data etc. Moreover, the labor cost for inputs, such as a music name, etc. was generated.

[0006] When the musical piece which heard broadcast and was pleasing was touched, the listener who hears a radio broadcasting on the other hand needed to record the music name etc. by a memorandum etc., and needed to keep it in mind. Moreover, the listener needed to make a note of and keep information, such as the store name, an amusement-facilities name, an event name, and a trade name, in mind also about the information about stores, such as a musical piece introduced in the program, an image, a restaurant, and a boutique, and amusement facilities, an event, and the matter further introduced in information and the other broadcasts about goods. In this case, the inconvenience that it failed to hear such information and could not record on a memorandum etc. had arisen. Moreover, even if it is broadcast by the FM multiplex broadcast and given with alphabetic data, while the alphabetic data is displayed, it may be unrecordable with a memorandum etc.

[0007] In such a case, a listener can ask a broadcasting station about a music name etc. However, since it is guidance with an operator's voice, it is necessary to record by a memorandum etc. Moreover, the time amount of guidance service is restrained like until from 10:00 a.m. at 6:00 p.m.

[0008] Furthermore, about data, such as a count it was broadcast about the broadcast musical piece that the data on various kinds of statistics, for example, a certain musical piece, were, it did not turn out that the data is not purchased from the special company which is totaling the broadcast musical piece.

[0009] Then, the database associated and accumulated with the program which the broadcasting station broadcast, the identification code which identifies the program for the information about a musical piece, the identification code which identifies the musical piece was created, and it stored in the computer, and when enabling it to retrieve the information about a program, and the information about a musical piece by the identification code from the database, this invention persons thought that a listener's inconvenience could be canceled. And the musical piece code which can identify that musical piece when broadcasting a musical piece for the program code which can identify that program when a broadcasting station broadcasts a program in this case in a program again is broadcast to coincidence. When the listener recorded the program code and a broadcast code, he can acquire the information about the program, and the information about a musical piece from the database, and thought that the data on various kinds of statistics could be created from the database.

[0010] Then, the place made into the purpose of this invention is to offer the system which creates the database accumulated in the condition that the information on the broadcast musical piece and the broadcast program etc. can be retrieved.

[0011]

[Means for Solving the Problem] this invention persons are comprehensive broadcast database creation systems which create the comprehensive broadcast database

which accumulated at least the broadcast data about the contents which two or more broadcasting stations broadcast possible [a classification] for said every broadcasting station. (1st invention) The program code which identifies this program broadcast with this program in case said broadcasting station broadcasts a program at least, The program database which associated the program information about this program, and the program broadcasting hours it is broadcast that these programs are, and was accumulated, The musical piece code which identifies this musical piece broadcast with this musical piece in case said broadcasting station broadcasts the musical piece recorded on the musical piece record medium, The musical piece database which associated the musical piece information about this musical piece, and was accumulated, The musical piece code read-out means of said musical piece codes given to the container of said musical piece code recorded on said musical piece record medium with said musical piece, and said musical piece record medium which reads said one of musical piece codes at least, Said program information related with said program code at least when said broadcasting station broadcast said program code with said program, and said program broadcasting hours are read from said program database. A 1st storage means to associate said program code, said program information, said program broadcasting hours, and broadcasting station name of said broadcasting station, and to memorize temporarily, Said musical piece information related with said musical piece code given when said musical piece code was given from said musical piece code read-out means is read from said musical piece database. A 2nd storage means to associate the musical piece broadcasting hours it was broadcast that said musical piece code, said musical piece information, and said musical piece were, and to memorize temporarily, Said program broadcasting hours said musical piece broadcasting hours Associate said musical piece code memorized by said program code memorized by said 1st storage means when contained, said program information, said program broadcasting hours, said broadcasting station name, and said 2nd storage means, said musical piece information, and said musical piece broadcasting hours, and it generates as broadcast data. A broadcast data generation means to associate said program code, said program information, said program broadcasting hours, and said broadcasting station name, to generate as these broadcast data, and to memorize temporarily when said program broadcasting hours do not contain said musical piece broadcasting hours, The comprehensive broadcast database creation system characterized by including the comprehensive store which accumulates said generated broadcast data possible [a classification] for every broadcasting station, and is stored as said comprehensive broadcast database was invented.

[0012] In addition, it does not matter even if broadcast is television broadcasting and it is a radio broadcasting here that what is necessary is just multiplex broadcasting which can broadcast a program code, a musical piece code, etc. with a program.

[0013] this invention persons are broadcasting station broadcast database creation

systems which create the broadcasting station broadcast database which accumulated the broadcast data about the contents which the broadcasting station broadcast as the 2nd invention again. (2nd invention) The program code which identifies this program broadcast with this program in case said broadcasting station broadcasts a program, The program database which associated the program information about this program, and the program broadcasting hours it is broadcast that these programs are, and was accumulated, The musical piece code which identifies this musical piece broadcast with this musical piece in case said broadcasting station broadcasts the musical piece recorded on the musical piece record medium, The musical piece database which associated the musical piece information about this musical piece, and was accumulated, The musical piece code read-out means of said musical piece codes given to the container of said musical piece code recorded on said musical piece record medium with said musical piece, and said musical piece record medium which reads said one of musical piece codes at least, Said program information related with said program code when said broadcasting station broadcast said program code with said program, and said program broadcasting hours are read from said program database. A 1st storage means to associate said program code, said program information, and said program broadcasting hours, and to memorize temporarily, Said musical piece information related with said musical piece code given when said musical piece code was given from said musical piece code read-out means is read from said musical piece database. A 2nd storage means to associate the musical piece broadcasting hours it was broadcast that said musical piece code, said musical piece information, and said musical piece were, and to memorize temporarily, Associate said musical piece code memorized by said program code memorized by said 1st storage means when said program broadcasting hours contained said musical piece broadcasting hours, said program information, said program broadcasting hours, and said 2nd storage means, said musical piece information, and said musical piece broadcasting hours, and it generates as broadcast data. A broadcast data generation means to associate said program code, said program information, and said program broadcasting hours, to generate as these broadcast data, and to memorize temporarily when said program broadcasting hours do not contain said musical piece broadcasting hours, The broadcasting station broadcast database creation system characterized by including the broadcasting station store which accumulates said generated broadcast data and is stored as said broadcasting station broadcast database was invented.

[0014] In addition, it does not matter even if broadcast is television broadcasting and it is a radio broadcasting here that what is necessary is just multiplex broadcasting which can broadcast a program code, a musical piece code, etc. with a program.

[0015]

[Embodiment of the Invention] (Gestalt of implementation of the 1st invention) The comprehensive broadcast database creation system of this invention is a creation

system which creates the comprehensive broadcast database which accumulated at least the broadcast data about the contents which two or more broadcasting stations broadcast possible [a classification] for every broadcasting station. This comprehensive broadcast database creation system can generate the broadcast data about the contents which the broadcasting station broadcast, and can create the comprehensive broadcast database which accumulated that broadcast data possible [a classification] for every broadcasting station at least. It explains to a detail below. [0016] This comprehensive broadcast database creation system A program database and a musical piece database, A musical piece code read-out means, the 1st storage means, the 2nd storage means, and a broadcast data generation means, The broadcast data about the contents which two or more broadcasting stations broadcast are generated using a program database, a musical piece database, a musical piece code read-out means, the 1st storage means, the 2nd storage means, and a broadcast data generation means including a comprehensive store. It is the system which piles up a comprehensive store possible [a classification] for every broadcasting station, and stores the broadcast data of two or more of these generated broadcasting stations in it as a comprehensive broadcast database.

[0017] A program database is a database which associated the program code which identifies the program broadcast with a program in case a broadcasting station broadcasts a program at least, the program information about a program, and the program broadcasting hours it is broadcast that programs are, and was accumulated. This database can be created using a computer, can be stored in the storage of a computer etc., and can be stored. A broadcasting station name can be associated further and these program code, program information, and program broadcasting hours can also be piled up.

[0018] A program code is a code given to the program here, in order to identify the program which the broadcasting station broadcast. This program code can be broadcast in teletext broadcast etc. with the program to which the program code was given. Program information is the information about a program. That is, they are information, such as information about the information on the name of stores, such as the information on name and others of a program name, a sponsor, a chairman, and a performer and various information introduced in the program, for example, a restaurant, and a boutique, an address, etc., introduced CD, books, a movie, an event, etc., and CM (commercials) information in a program. That is, among various information prepared in the process which creates a program, a broadcasting station can be chosen as arbitration and can consist of from. Moreover, a broadcasting station name can be included in program information. By doing in this way, the broadcasting station name which broadcast the program also from program information can be known. Program broadcasting hours are time amount it is broadcast that a program is. Program broadcasting hours can be given from the time day bull which the broadcasting station created.

[0019] A program database can associate these program codes, program information, and program broadcasting hours at least, and can be accumulated and created. Thus, since a program database associates a program code, program information, and program broadcasting hours at least and is being accumulated, if a program code understands it, it can retrieve and read the program broadcasting hours and program information from a program database. Moreover, if program broadcasting hours are specified, the program information and the program code of a program which are broadcast by the program broadcasting hours can be searched and read from a program database.

[0020] In addition, this program database can also use the database which stored the contents of broadcast in the store of a computer etc. beforehand, before a broadcasting station broadcasts a program. That is, since the data about the contents of a program are accumulated as a database, and are generally beforehand memorized by the store of the computer of a broadcasting station and program information, such as a performer name and a program name, and the broadcasting hours of a program are contained in this database at least, it is possible to create a program database using this database.

[0021] This program database is storables in storage, such as a large hard disk of a computer, and a magnetic storage medium. Moreover, information can be divided according to the class of that information, and this program database can also constitute dispersedly in two or more storage. Moreover, two or more broadcasting stations can also share and store one storage. A storage region can be divided into one storage, and it can use for it, and can realize to it. In this case, it can install in a remote place using a network. In addition, it is realizable by the suitable approach.

[0022] A musical piece database is a database which associates the musical piece code which identifies the musical piece broadcast with a musical piece in case a broadcasting station broadcasts the musical piece recorded on the musical piece record medium, and the musical piece information about the musical piece, and was accumulated. This database can also be created using a computer, the storage of a computer etc. can be made to be able to memorize, and it can store. A musical piece code means the code which identifies the musical piece currently recorded on musical piece record media, such as a compact disk (CD), here. This musical piece code can be broadcast with a musical piece in teletext broadcast etc.

[0023] As this musical piece code, an international pitch easy recording code (ISRC) can be used. ISRC is recorded on musical piece record media, such as CD, with a musical piece in the present, and, usually it is used. This ISRC can be used as a musical piece code.

[0024] Moreover, it is also possible to use a musical piece code for the bar code given to the container which carries out receipt maintenance of the musical piece record media, such as CD. Generally musical piece record media, such as CD, are put in and sold to containers, such as a case which carries out receipt maintenance of the

musical piece record media, such as CD. The bar code used as a circulation code which manages circulation sale of goods is given to containers, such as this case. This bar code is directly printed by the container itself, and is printed by a seal, a tag, etc. which are stuck on the sheet which is packing the container further, or covering of wrap paper, vinyl, etc. prints the container further. In Japan, a circulation code called JAN (Japanese Article Number) is used. This circulation code can be used as a musical piece code for identifying a musical piece.

[0025] Moreover, the sheet with which description of a demonstration person's photograph, words, and a musical piece etc. was printed other than the musical piece record medium is dedicated to the container which carries out receipt maintenance of the musical piece record media, such as CD. The bar code is printed by this sheet as a package number of a musical piece record medium. This bar code can also be used as a musical piece code for identifying a musical piece.

[0026] Thus, these bar codes are directly printed by the container itself, are printed by a tag, a seal, etc. which are stuck on a container, or are printed by sheets, such as a words card into which it is put in the container. "The bar code given to the container" means all, such as a bar code printed by the bar code printed by the seal on which the bar code, container, or container currently printed by the container itself was stuck by wrap covering etc., the tag, etc., and the sheet into which it is put in the container, and means the bar code given to the container with a certain means further in addition to this here. These bar codes can also be used as a musical piece code which identifies a musical piece.

[0027] Both ISRC and a bar code can be used as a musical piece code. A bar code can be used as a musical piece code also about the musical piece currently recorded on CD with which ISRC is not recorded. In teletext broadcast etc., this musical piece code can be broadcast with a musical piece, in case a broadcasting station broadcasts a musical piece.

[0028] The musical piece information about a musical piece is information, such as a name about demonstration persons, such as a musical piece name, a singer of a musical piece, and a player, the composer of a musical piece, a songwriter, etc., and simplified personal history. A musical piece database can be related with these information and musical piece codes that were created, and can be accumulated and created. Thus, since a musical piece database relates the musical piece information about a musical piece with a musical piece code and is being accumulated, it becomes possible [retrieving musical piece information] from a musical piece code.

[0029] Although this musical piece database can also be created itself, the already created musical piece database can also be used for it.

[0030] As a store which stores this musical piece database, stores, such as a hard disk used for the computer etc., can be used. Moreover, it can also store in two or more storage dispersedly. Moreover, it is also possible to store one storage for a musical piece database and a program database. A storage region can be divided into

one storage, and it can use for it, and can realize to it. For example, it is possible to install in a remote place by using a NETO work piece. In addition, it is realizable by the suitable approach.

[0031] A musical piece code read-out means is a means of the musical piece codes given to the container of the musical piece code recorded on the musical piece record medium with the musical piece, and a musical piece record medium which reads one of musical piece codes at least. Therefore, a musical piece code read-out means can also be equipped with both of means which read each musical piece code.

[0032] When reading a musical piece code from a musical piece record medium, ISRC usually recorded on the musical piece record medium with the musical piece in the present condition will be read. In case a broadcasting station reproduces and broadcasts a musical piece from a musical piece record medium in a program, the musical piece code currently recorded on the musical piece record medium can be reproduced to coincidence, and a musical piece code can be separated and read from a musical piece. In this case, a musical piece code read-out means can be constituted as a decollator which separates and reads the electrical signal which bears the musical piece code contained in that electrical signal, in case the musical piece and musical piece code which are recorded in order that a regenerative apparatus may reproduce a musical piece from a musical piece record medium are changed and read to an electrical signal. Therefore, the decollator as a musical piece code read-out means can also consist of gestalten which could also constitute from a gestalt united with the regenerative apparatus which reproduces a musical piece, and were connected to the regenerative apparatus.

[0033] Moreover, when reading a musical piece code from the container of a musical piece record medium, the bar code printed by the sheet into which the bar code printed by the seal on which the bar code given to the container by a certain approach, for example, the bar code printed by the container itself, the container, or the container was stuck by a wrap sheet, covering, etc., the tag, etc., and the container were put by the bar code or container printed by a wrap sheet, covering, etc. will be read. In this case, a bar code can be read, using a bar code reader as a musical piece code read-out means.

[0034] The 1st storage means is a means to read the program information and program broadcasting hours which were related with the program code at least from a program database, to associate a program code, program information, program broadcasting hours, and the broadcasting station name of a broadcasting station, and to memorize temporarily, in case a broadcasting station broadcasts a program code with a program.

[0035] In case a broadcasting station broadcasts a program, based on the program code broadcast with a program, program information and program broadcasting hours can be read from a program database, and broadcast can be prepared. Therefore, the 1st storage means can be connected and used for the device for broadcast. Thus, the

program information and program broadcasting hours which were read are temporarily memorizable to storage with a program code and a broadcasting station name. In this case, a broadcasting station name can be set up so that it may relate with program information, program broadcasting hours, and a program code automatically and may memorize in the 1st storage means. Moreover, as mentioned above, a program code, program information, program broadcasting hours, and a broadcasting station name are beforehand associated as a program database, and it is accumulated, and in case program information and program broadcasting hours are read from a program database based on a program code, it can also set up so that a broadcasting station name may also be read to coincidence.

[0036] In this 1st storage means, since program broadcasting hours are also associated and memorized, a program code, program information, etc. can be grasped from program broadcasting hours. A hard disk etc. can be used as a store used as this 1st storage means.

[0037] The 2nd storage means is a means to associate the musical piece broadcasting hours with which read the musical piece information related with the given musical piece code from the musical piece database, and it was broadcast that a musical piece code, musical piece information, and said musical pieces were, and to memorize temporarily, when a musical piece code is given from a musical piece code read-out means. That is, a musical piece code is read with the musical piece code read-out means mentioned above when a musical piece was reproduced and broadcast from a musical piece record medium during broadcast of a program. And the 2nd storage means can read a musical piece database to this musical piece information from a musical piece code read-out means based on reception and this musical piece code, can relate this read musical piece code with the time amount, i.e., the musical piece broadcasting hours, it was broadcast that a musical piece code, musical piece information, and musical pieces were, and can memorize it temporarily to storage.

[0038] Stores, such as a hard disk, can be used as this store. Moreover, this storage can also share the storage used with the 1st storage means. Moreover, different storage from the storage used with the 1st storage means can be used. When two storage is used, it can use like one storage by connecting and using these two storage. In this case, installing in a remote place using a network is also possible.

[0039] In addition, since the musical piece broadcasting hours it was broadcast in the 2nd storage means that musical pieces were also associated and memorized, a musical piece code and musical piece information can be grasped from musical piece broadcasting hours.

[0040] A broadcast data generation means associates the musical piece code and musical piece information which were memorized by the program code and program information which were memorized by the 1st storage means when program broadcasting hours contained musical piece broadcasting hours, program broadcasting

hours, the broadcasting station name, and the 2nd storage means, and musical piece broadcasting hours, and generates them as broadcast data. When program broadcasting hours do not contain musical piece broadcasting hours, it is a means to associate a program code, program information, program broadcasting hours, and a broadcasting station name, to generate as broadcast data, and to memorize temporarily.

[0041] When the musical piece code and musical piece information which were memorized by the program code and program information which were memorized by the 1st storage means, program broadcasting hours, the broadcasting station name, and the 2nd storage means, and musical piece broadcasting hours are associated and it generates as broadcast data, program broadcasting hours and musical piece broadcasting hours can be compared and associated. That is, when the musical piece broadcasting hours of a musical piece are contained in program broadcasting hours, it can relate with a program code, program information, program broadcasting hours, a broadcasting station name, a musical piece code, and musical piece broadcasting hours, and can generate as broadcast data.

[0042] Moreover, when program broadcasting hours do not contain musical piece broadcasting hours, the program code and program information which were memorized by the 1st storage means, program broadcasting hours, and a broadcasting station name can be associated, and it can generate as broadcast data.

[0043] It is sharable with the storage used for the storage or the 2nd storage means used for the 1st storage means also about the storage which memorizes the broadcast data generated here. That is, it can also be made the gestalt which distributed storage and can also be made the same storage. Also in this case, it can install in a remote place using a network.

[0044] The broadcast data generated by this broadcast data generation means are data with which the musical piece information, the musical piece code, the musical piece broadcasting hours, and the broadcasting station name of the musical piece broadcast in a program code, program information, program broadcasting hours, and its program were associated. Therefore, the musical piece information broadcast in the program from the program code can be recognized. The musical piece broadcasting hours it was broadcast from the musical piece code that the musical piece was, and the program information it was broadcast that the musical piece was can be recognized. Moreover, a broadcasting station can be recognized from a broadcasting station name.

[0045] A comprehensive store can accumulate the broadcast data generated in the broadcast data generation means in this way possible [a classification] for every broadcasting station, and can store them as a comprehensive broadcast database. The comprehensive broadcast database stored here is a database which classified and associated the broadcast data of two or more broadcasting stations for every broadcasting station, and was accumulated and created in the condition which can be

searched. Broadcast data can be classified according to the broadcasting station name included in broadcast data for every broadcasting station.

[0046] This comprehensive store can add and store only the newest broadcast data in the comprehensive broadcast database which already accumulated and stored broadcast data. It is because it is overlapping and a storage region becomes useless, even if it stores the already stored broadcast data. In this case, before adding a comprehensive store to a comprehensive broadcast database, the broadcast data given from the broadcast data generation means can detect whether it is the newest data, and can store it. Detection of being the newest data is realizable by adding the notation which shows that it is transmitting ending to the broadcast data transmitted to a comprehensive store.

[0047] This comprehensive storage can be constituted using the computer equipped with the storage equipped with suitable storage capacity. A suitable storage can be used according to the amount of the data to memorize.

[0048] In addition, the broadcasting station storage which is accumulated as a broadcasting station broadcast database according to individual for every broadcasting station, and stores the broadcast data generated in the broadcast data generation means can be formed. Thus, use of each broadcasting station can be presented with the broadcasting station broadcast database which memorized the broadcast data for every broadcasting station directly by creating the broadcasting station broadcast database according to individual for every broadcasting station, and storing in the broadcasting station store.

[0049] Moreover, a comprehensive store can accumulate and store in a comprehensive broadcast database the broadcast data read from this broadcasting station store. In this case, comprehensive storage can read and store only the broadcast data which are not transmitted to comprehensive storage from broadcasting station storage, therefore are not memorized by comprehensive storage yet. That is, it can see from a comprehensive store, and only new broadcast data can be read and stored. For example, a batch system can be adopted, and only new broadcast data can be read and stored periodically.

[0050] Moreover, in the comprehensive broadcast database creation system of this invention, it can have the connecting means which connects comprehensive storage to computer networks, such as the Internet. By having this connecting means, the comprehensive broadcast database stored in the comprehensive store can be accessed now through a computer network. Therefore, a user can retrieve and obtain musical piece information and program information using a musical piece code and a program code. This connecting means can be constituted using a usual means to access the Internet.

[0051] Furthermore, the comprehensive broadcast database creation system of this invention can be equipped with a 1st total means to total the broadcast data accumulated as a comprehensive broadcast database. Since the broadcast data which

constitute a comprehensive broadcast database include information, such as a musical piece code, musical piece information, musical piece broadcasting hours, a program code, program information, and a broadcasting station name, they can recognize the count it was broadcast that the specific musical piece was by totaling the broadcast data which contain a specific musical piece code, for example. The count broadcast at the specific broadcasting station can be recognized combining a broadcasting station name. Moreover, by combining with musical piece broadcasting hours, it can recognize how many times the specific musical piece was broadcast in the specific period.

[0052] This 1st total means can be constituted using the data analysis function of the computer used as a comprehensive store which generally stores a comprehensive broadcast database. The new hit song ranking of a genre, the ranking of popular goods, etc. can be created using this total result.

[0053] Moreover, when a viewer, a listener, etc. of broadcast have accessed the comprehensive broadcast database, it can have a 2nd total means to total the number of accesses of a viewer and a listener about the information included in the broadcast data which these viewers and listeners accessed, for example, musical piece information, program information, etc. The degree of the interest of the viewer to the contents broadcast by the total result of this 2nd total means and a listener can be numeric-data-ized. In this case, it becomes possible to analyze the sex of those who are viewing and listening to broadcast and are hearing, age, a hobby, etc. by having the sex of the viewer who has accessed, and a listener, age, a hobby, etc. inputted.

[0054] Moreover, if the total of counts of access to each broadcast data, such as a count of broadcast of a musical piece, etc. is carried out by the 2nd total means, the totaled result can come to hand through a computer network. Real time can be provided with the total result totaled by these total means using a network to the company which needs or uses, for example, a music company, a publishing company, an advertising agency, etc.

[0055] The comprehensive broadcast beta base creation system constituted as mentioned above can operate as follows.

[0056] In case a broadcasting station also broadcasts the program code of the program with a program, the program code can be transmitted to the 1st storage means from the device for broadcast. The 1st storage means can transmit the received program code to a program database, can read the program information and program broadcasting hours which were related with the program code at least from a program database, can relate a broadcasting station name with a program code further at these program information and program broadcasting hours that were read, and can memorize it to predetermined storage temporarily. In this case, when the broadcasting station name is also already associated in the program database, program information, program broadcasting hours, and a broadcasting station name can be read, a program code can be related with these, and it can memorize to

predetermined storage temporarily.

[0057] In case a broadcasting station reproduces a musical piece from a musical piece record medium in a program and broadcasts a musical piece, in the musical piece code and the present condition which are recorded on the musical piece record medium with the musical piece, ISRC can be separated and read with a musical piece code read-out means, and it can transmit to the 2nd storage means. Or bar codes, such as JAN given to the container of a musical piece record medium, can be read as a musical piece code, and it can transmit to the 2nd storage means. The 2nd storage means which received transmission of this musical piece code can read the musical piece information related with the musical piece code from a musical piece database, can associate, the broadcasting hours, i.e., the musical piece broadcasting hours, by which it was broadcast further that musical pieces were musical piece information and a musical piece code, and can memorize them to predetermined storage temporarily.

[0058] And when musical piece broadcasting hours are contained within the limits of program broadcasting hours, a broadcast data generation means can associate the musical piece code and musical piece information which were memorized by the program code and program information which were memorized by the 1st storage means, program broadcasting hours, the broadcasting station name, and the 2nd storage means, and musical piece broadcasting hours, can generate them as broadcast data, and can be memorized to predetermined storage. Moreover, when musical piece broadcasting hours are not contained within the limits of program broadcasting hours, a program code, program information, and program broadcasting hours can be associated, and it can generate as broadcast data. Thus, the generated broadcast data are temporarily memorizable for a predetermined storage means.

[0059] Next, the generated broadcast data are transmitted to comprehensive storage. And the broadcast data generated newly can be added to the broadcast data already stored in the comprehensive store by being accumulated, and a comprehensive broadcast database can be constituted and updated. In this case, the notation which can identify whether it is finishing [transmission to comprehensive storage] to the generated broadcast data is added, and only the broadcast data which are not yet transmitted can be stored in comprehensive storage.

[0060] Thus, in response to transmission of the broadcast data generated from the broadcast data generation means, broadcast data can be accumulated on a comprehensive store, and a comprehensive broadcast database can be created and stored.

[0061] Moreover, as mentioned above, the broadcasting station store is formed, the broadcast data for every broadcasting station can be accumulated there, and the broadcasting station broadcast database which is a database for every broadcasting station can be created and stored. In this case, a comprehensive store can read new broadcast data from this broadcasting station store, and can accumulate this. The notation which can identify whether it is finishing [transmission] is added to

broadcast data, and all in these cases can store in comprehensive storage only the broadcast data which are not yet transmitted.

[0062] Thus, data and statistics can be acquired from there using the created comprehensive broadcast database. For example, it can acquire, the information, for example, the introduced store information, introduced in the program using the program code. Moreover, musical piece information can be acquired using a musical piece code. Moreover, by totaling the broadcast data with which a musical piece code is contained, the count it was broadcast that the musical piece which has the musical piece code was can be grasped.

[0063] Therefore, when the comprehensive broadcast database creation system of this invention has the 1st total means, it is possible to total the broadcast data with which a specific demonstration person name is included from the comprehensive broadcast database stored in the comprehensive store.

[0064] OK, moreover, when it has the connecting means which the comprehensive broadcast database creation system of this invention connects to computer networks, such as the Internet, the user who has a terminal connectable with a computer network can acquire program information for musical piece information from the comprehensive broadcast database stored in the comprehensive store using a program code using a musical piece code.

[0065] Furthermore, when a comprehensive broadcast database creation system has the 2nd total means, a user's inclination can be analyzed by totaling the number of accesses to a program code or a musical piece code.

[0066] (Gestalt of implementation of the 2nd invention) The broadcasting station broadcast database creation system of this invention is a system which creates the broadcasting station broadcast database which accumulated the broadcast data about the contents which the broadcasting station broadcast. This broadcasting station broadcast database creation system can generate the broadcast data about the contents which the broadcasting station broadcast, and can create the broadcasting station broadcast database which accumulated that broadcast data.

[0067] This broadcasting station broadcast database creation system A program database, a musical piece database, and a musical piece code read-out means, The 1st storage means, the 2nd storage means, a broadcast data generation means, and broadcasting station storage are included. The broadcast data about the contents which one broadcasting station broadcast are generated using a program database, a musical piece database, a musical piece code read-out means, the 1st storage means, the 2nd storage means, and a broadcast data generation means. It is the system which stores this generated broadcast data in a broadcasting station store as a broadcasting station broadcast database.

[0068] The same thing as the program database in the comprehensive broadcast database creation system of the 1st invention can be used for a program database. It is the same as that of the case of the comprehensive broadcast database creation

system of the 1st invention also about a program code, program information, and program broadcasting hours. Moreover, the thing same also about the store which stores a program database as the case of the comprehensive broadcast database creation system of the 1st invention can be used. Therefore, explanation of this part is yielded to explanation of the gestalt of implementation of the 1st invention.

[0069] What also has a musical piece database the same as that of the musical piece database in the comprehensive broadcast database creation system of the 1st invention can be used. It is the same as that of the case of the comprehensive broadcast database creation system of the 1st invention also about a musical piece code and musical piece information. Moreover, the thing same also about the store which stores a musical piece database as the case of the comprehensive broadcast database creation system of the 1st invention can be used. Therefore, explanation of this part is yielded to the gestalt of implementation of the 1st invention.

[0070] The thing same also about a musical piece code read-out means as the case of the comprehensive broadcast database creation system of the 1st invention can be used. Therefore, explanation of this part is yielded to the explanation in the gestalt of implementation of the 1st invention.

[0071] About the 1st storage means, it is the same as that of the case of the comprehensive broadcast database creation system of the 1st invention except for the point which does not need to associate a broadcasting station name. That is, in the 2nd invention, the 1st storage means is a means to read the program information and program broadcasting hours which were related with the program code from a program database, to associate a program code, program information, and program broadcasting hours, and to memorize temporarily, in case a broadcasting station broadcasts a program code with a program. Since points other than this are the same as that of the 1st invention, explanation is omitted.

[0072] The 2nd storage means is the same as that of the case of the comprehensive broadcast database creation system of the 1st invention. Therefore, explanation of this part is yielded to explanation of the gestalt of implementation of the 1st invention.

[0073] About a broadcast data generation means, it is the same as that of the case of the comprehensive broadcast database creation system of the 1st invention except for the point that a broadcasting station name does not need to be associated, as broadcast data. That is, with the gestalt of implementation of the 2nd invention, the broadcast data generated by this broadcast data generation means are data with which the musical piece information, the musical piece code, and musical piece broadcasting hours of the musical piece broadcast in a program code, program information, program broadcasting hours, and its program were associated. Therefore, the musical piece information broadcast in the program from the program code can be recognized. The musical piece broadcasting hours it was broadcast from the musical piece code that the musical piece was, and the program information it was broadcast that the musical piece was can be recognized.

[0074] A broadcasting station store can accumulate the broadcast data generated in the broadcast data generation means in this way, and can store them as a broadcasting station broadcast database. The broadcasting station broadcast database stored here is a database stored in the condition that broadcast data can be searched.

[0075] This broadcasting station store can be added and stored in the broadcasting station broadcast database in which only the newest broadcast data were already stored. It is because it is overlapping and a storage region becomes useless, even if it stores the already stored broadcast data. In this case, before adding a broadcasting station store to a broadcasting station broadcast database, the broadcast data given from the broadcast data generation means can detect whether it is the newest data, and can store it. Detection of being the newest data is realizable by adding the notation which shows that it is transmitting ending to the broadcast data transmitted to a broadcasting station store.

[0076] This broadcasting station storage can be constituted using the computer which has the storage equipped with suitable storage capacity. A suitable storage can be used according to the amount of the data to memorize.

[0077] Moreover, also in the broadcasting station broadcast database creation system of this invention, it can have the connecting means which connects broadcasting station storage to computer networks, such as the Internet. By having this connecting means, the broadcasting station broadcast database stored in the broadcasting station store can be accessed now through a computer network. Therefore, a user can retrieve and obtain musical piece information and program information using a musical piece code and a program code. This connecting means can be constituted using a usual means to access the Internet.

[0078] Furthermore, the broadcasting station broadcast database creation system of this invention can be equipped with a 1st total means to total the broadcast data accumulated as a broadcasting station broadcast database. Since the broadcast data which constitute a broadcasting station broadcast database include information, such as a musical piece code, musical piece information, musical piece broadcasting hours, a program code, and program information, they can recognize the count it was broadcast that the specific musical piece was by totaling the broadcast data which contain a specific musical piece code, for example. By combining with musical piece broadcasting hours, it can recognize how many times the specific musical piece was broadcast in the specific period.

[0079] This 1st total means can be constituted using the data analysis function of the computer used as a broadcasting station store which generally stores a broadcasting station broadcast database. The new hit song ranking of a genre, the ranking of popular goods, etc. can be created using this total result.

[0080] Moreover, when a viewer, a listener, etc. of broadcast have accessed the broadcasting station broadcast database, it can have a 2nd total means to total the

number of accesses of a viewer and a listener about the information included in the broadcast data which these viewers and listeners accessed, for example, musical piece information, program information, etc. The degree of the interest of the viewer to the contents broadcast by the total result of this 2nd total means and a listener can be numeric-data-ized. In this case, it becomes possible to analyze the sex of those who are viewing and listening to broadcast and are hearing, age, a hobby, etc. by having the sex of the viewer who has accessed, and a listener, age, a hobby, etc. inputted.

[0081] Moreover, if the total of counts of access to each broadcast data, such as a count of broadcast of a musical piece, etc. is carried out by the 2nd total means, the totaled result can come to hand through a computer network. Real time can be provided with the total result totaled by these total means using a network to the company which needs or uses, for example, a music company, a publishing company, an advertising agency, etc.

[0082] The broadcasting station broadcast beta base creation system constituted as mentioned above can operate as follows.

[0083] In case a broadcasting station also broadcasts the program code of the program with a program, the program code can be transmitted to the 1st storage means from the device for broadcast. The 1st storage means can transmit the received program code to a program database, can read the program information and program broadcasting hours which were related with the program code from a program database, can relate a program code with these program information and program broadcasting hours that were read, and can memorize it to predetermined storage temporarily.

[0084] When a broadcasting station reproduces a musical piece from a musical piece record medium in a program and broadcasts a musical piece, in the musical piece code and the present condition which are recorded on the musical piece record medium with the musical piece, ISRC can be separated and read with a musical piece code read-out means, and it can transmit to the 2nd storage means. Or bar codes, such as JAN given to the container of a musical piece record medium, can be read as a musical piece code, and it can transmit to the 2nd record means. The 2nd storage means which received transmission of this musical piece code can read the musical piece information related with the musical piece code from a musical piece database, can associate, the broadcasting hours, i.e., the musical piece broadcasting hours, by which it was broadcast further that musical pieces were musical piece information and a musical piece code, and can memorize them to predetermined storage temporarily.

[0085] And when musical piece broadcasting hours are contained within the limits of program broadcasting hours, a broadcast data generation means can associate the musical piece code and musical piece information which were memorized by the program code and program information which were memorized by the 1st storage means, program broadcasting hours, and the 2nd storage means, and musical piece

broadcasting hours, can generate them as broadcast data, and can be memorized to predetermined storage. Moreover, when there are no musical piece broadcasting hours contained within the limits of program broadcasting hours, a program code, program information, and program broadcasting hours can be associated, and it can generate as broadcast data. Thus, the generated broadcast data are temporarily memorizable for a predetermined storage means.

[0086] Next, it can be accumulated with the broadcast data which transmit the generated broadcast data to a broadcasting station store, and have already been stored, and a broadcasting station broadcast database can be constituted. In this case, the notation which can identify whether it is finishing [transmission to broadcasting station storage] to the generated broadcast data is added, and only the broadcast data which are not yet transmitted can be stored in broadcasting station storage.

[0087] Thus, broadcast data can be memorized in response to transmission of the broadcast data generated from the broadcast data generation means, and a broadcasting station broadcast database can be created.

[0088] Thus, data and statistics can be acquired from there using the created broadcasting station broadcast database. For example, it can acquire, the information, for example, the introduced store information, introduced in the program using the program code. Moreover, musical piece information can be acquired using a musical piece code. Moreover, by totaling the broadcast data with which a musical piece code is contained, the count it was broadcast that the musical piece which has the musical piece code was can be grasped.

[0089]

[Example] (Example 1) The example of the comprehensive broadcast database creation system of invention of the following 1st is explained using a drawing.

[0090] The outline of the comprehensive broadcast database creation system of this invention is shown in drawing 1. Moreover, the flow chart of the comprehensive broadcast database creation system of this invention is shown in drawing 2.

[0091] The comprehensive broadcast database creation systems of this example are a musical piece DB(musical piece database) 60 and a system which creates [during broadcast] the comprehensive broadcast DB(comprehensive broadcast database) 130 using the musical piece data automatic retrieval section 80, the program code grant function part 70, the temporary storage section 90, the newest data retrieval / notice section 140, a program DB(program database) 100, and broadcasting station broadcast DB(broadcasting station broadcast database)120 grade during broadcast with the musical piece code read-out section 50. And the musical piece DB60 and the program DB100 are stored in the storage of a computer, respectively. Moreover, the broadcasting station broadcast DB120 is stored in broadcasting station storage, and the comprehensive broadcast DB130 is stored in comprehensive storage. In addition, the storage which stores these databases is not illustrated separately.

[0092] A program DB100 is the database which the program code, program information, and program broadcasting hours of a program which are broadcast at the broadcasting station associated and accumulated, and is memorized and stored in the storage of a computer. By inputting the contents 110 of program manufacture into the storage of a computer, a program code, program information, program broadcasting hours, etc. associate a program DB100, and it accumulates and consists of this examples. Moreover, a musical piece DB60 is the database which associated the musical piece code and musical piece information on a musical piece, and was accumulated, and is memorized and stored in the storage of a computer. In this case, by this example, the bar code given to the container of ISRC recorded on the musical piece record medium with the musical piece and a musical piece record medium is used for the musical piece code. However, although ISRC and a bar code are used in this example, it is also possible to use the musical piece code replaced with this.

[0093] The program code of the program which plans broadcast from the program code grant function part 70 by the queue input 40 is given. And the program code grant function part 70 reads the program information and program broadcasting hours which were related with the program code of S5 small lever from a program DB100. And a broadcasting station directs broadcast initiation of a program in S6. If a program is started by broadcast initiation based on directions, in S7, these program information by which reading appearance was carried out, program broadcasting hours, and program broadcast start time will be transmitted to the temporary storage section 90 with a program code, and it will relate with a program code, program information, program broadcasting hours, and a broadcasting station name in the temporary storage section 90, and will memorize temporarily. In addition, it will be transmitted to the device 30 for broadcast (for texts) from the program code grant function part 70, and a program code will be broadcast with a program. Here, the 1st storage means is realized in the program code grant function part 70 and the temporary storage section 90.

[0094] On the other hand, CD10 which is a musical piece record medium is set for broadcast in S1 during program broadcast. And the musical piece code read-out section 50 reads a musical piece code during broadcast at the same time a musical piece is reproduced in the device 20 for broadcast (for voice) in S2 for broadcast. Here, the musical piece code read-out means is realized in the musical piece code read-out section 50 during this broadcast. When ISRC is used as a musical piece code, read-out of a musical piece code is read using the decollator (not shown) which separates and reads ISRC included in the device 20 for broadcast in ISRC currently recorded on CD10 with the musical piece, in case a musical piece is reproduced by the device 20 for broadcast from CD10. And when a bar code is used as a musical piece code, the bar code given to the container (not shown) of CD10 is read using a bar code reader (not shown).

[0095] Thus, the musical piece code read in the musical piece code read-out section

50 during broadcast is sent to the musical piece data automatic retrieval section 80 during broadcast. And in S3, the musical piece data automatic retrieval section 80 reads the musical piece information related with the received musical piece code from a musical piece DB60 during broadcast. And it transmits to the temporary storage section 90, and the musical piece code and musical piece information which were read in S4, and musical piece broadcasting hours are memorized temporarily. In addition, it is transmitted to the device 30 for broadcast (for texts) from the musical piece data automatic retrieval section 80 during broadcast, and a musical piece code is broadcast with a musical piece. Here, the 2nd storage means is realized in the code automatic retrieval section 80 and the temporary storage section 90 during broadcast.

[0096] The temporary storage section 90 associates this musical piece code, musical piece information, musical piece broadcasting hours, a program code, program information, program broadcasting hours, and a broadcasting station name, and memorizes them temporarily as broadcast data. In this case, related attachment is judged by musical piece broadcasting hours and program broadcasting hours. Here, the broadcast data generation means is realized in the temporary storage section 90. The store used for the 1st storage means, the store used for the 2nd storage means, and the store used for a broadcast data generation means are shared by this example.

[0097] Thus, in S8, the newest data retrieval / notice section 140 reads the broadcast data memorized by the temporary storage section 90. And in S9, the newest data retrieval / notice section 140 detects whether it is broadcast data already accumulated by the comprehensive broadcast DB130 stored in the broadcasting station broadcast DB120 and the comprehensive storage which were stored in broadcasting station storage. The broadcast data which are not accumulated by a broadcasting station DB120 and the comprehensive broadcast DB130 are detected as the newest data.

[0098] Moreover, whether the data memorized in the temporary storage section are still completed as broadcast data detects. And it will have completed as broadcast data and the broadcast data which are not accumulated yet will be accumulated by the broadcasting station broadcast DB120 and the comprehensive broadcast DB130 in S10 and S11, respectively.

[0099] Moreover, the comprehensive storage which stores the comprehensive broadcast DB130 in this example is connected with the Internet, and the viewer and the listener are set up so that the comprehensive broadcast DB130 can be accessed through the Internet. A viewer and a listener can access the comprehensive broadcast DB130 from a portable telephone connectable with the Internet, a personal computer, etc., and can obtain broadcast data [/ based on a program code, a musical piece code, a musical piece name, a program name, etc.].

[0100] Moreover, the comprehensive store which stores the comprehensive broadcast DB130 is equipped also with the 2nd total means which it not only has the 1st total means which can total the count it was broadcast based on broadcast data that a

musical piece was, but can total the count by which broadcast data were accessed based on a total processing program. These two total means are realized by the total processing program carried in the comprehensive storage which stores the comprehensive broadcast DB130.

[0101] In this case, only the count only accessed by having the accessed sex of a viewer and a listener, age, an occupation, the address (area), and favorite talent inputted is not totaled. The inclination of the viewer who accesses the broadcast data, and a listener can be grasped by totaling the sex of the viewer who has accessed each broadcast data, and a viewer, age, an occupation, the address (area), favorite talent, etc., and analyzing the total result. In this example, it is set up so that the customer who expects a total result like a publishing company and an advertising agency of the total result totaled by this total means through the Internet can access.

[0102] (Example 2) The example of the broadcasting station broadcast data origination system of the 2nd invention is explained using drawing 1 for convenience.

[0103] The broadcasting station broadcast data origination systems of the 2nd invention are the musical piece DB(musical piece database) 60 in drawing 1 , and a system which creates [during broadcast] the broadcasting station broadcast DB(broadcasting station broadcast database) 120 using the musical piece data automatic retrieval section 80, the program code grant function part 70, the temporary storage section 90, the newest data retrieval / notice section 140, and program DB(program database)100 grade during broadcast with the musical piece code read-out section 50. And a musical piece DB60 and a program DB100 are stored in the storage of a computer, respectively, and it is the same as that of an example 1 that the broadcasting station broadcast DB120 is stored in broadcasting station storage of them.

[0104] Moreover, it is not necessary to relate a broadcasting station name with this musical piece code, musical piece information, musical piece broadcasting hours, a program code, program information, and program broadcasting hours in the temporary storage section 90. That is, a musical piece code, musical piece information, musical piece broadcasting hours, a program code, program information, and program broadcasting hours can be associated, and it can memorize temporarily as broadcast data.

[0105] It is the same as that of the 1st example except it. Therefore, explanation of the part is yielded to an example 1.

[0106] In addition, the broadcasting station storage which stores the broadcasting station broadcast DB120 is connected with the Internet, and a viewer and a listener can also be set up so that the broadcasting station broadcast DB120 can be accessed through the Internet. It is also possible for a viewer and a listener to access the broadcasting station broadcast DB120 from a portable telephone connectable with the Internet, a personal computer, etc., and to enable it for broadcast data [/ based on a program code, a musical piece code, a musical piece name, a program

name, etc.] to come to hand.

[0107]

[Effect of the Invention] The comprehensive broadcast database creation means of this invention can create the comprehensive broadcast database which accumulated the broadcast data with which a program code, program information, program broadcasting hours, a musical piece code, musical piece information, musical piece broadcasting hours, and a broadcasting station name were associated. Therefore, the comprehensive broadcast database which classified broadcast data for every broadcasting station can be created. OK, since a program code, program information, program broadcasting hours, a musical piece code, musical piece information, musical piece broadcasting hours, and a broadcasting station name are associated, broadcast data can acquire a musical piece code to musical piece information for program information from a program code, using a comprehensive broadcast database.

Moreover, the broadcast data accumulated as a comprehensive broadcast database using the total means can be totaled from various viewpoints.

[0108] The broadcasting station broadcast database creation means of this invention can create the broadcasting station broadcast database which accumulated the broadcast data with which a program code, program information, program broadcasting hours, a musical piece code, musical piece information, musical piece broadcasting hours, and a broadcasting station name were associated. Therefore, the broadcasting station broadcast database which classified the broadcast data of a broadcasting station can be created. OK, since a program code, program information, program broadcasting hours, a musical piece code, musical piece information, and musical piece broadcasting hours are associated, broadcast data can acquire a musical piece code to musical piece information for program information from a program code, using a broadcasting station broadcast database.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is drawing having shown the outline of the comprehensive broadcast database creation system of an example 1.

[Drawing 2] It is drawing having shown the step which creates a comprehensive broadcast database in the comprehensive broadcast database creation system of an example 1.

[Description of Notations]

50: It is the musical piece code read-out section during broadcast.

60: Musical piece DB

- 70: Program code grant function part
- 80: It is the musical piece data automatic retrieval section during broadcast.
- 90: The temporary storage section
- 100: Program DB
- 120: Broadcasting station broadcast DB
- 130: Comprehensive broadcast DB
- 140: The newest data retrieval / notice section
